

AMENDMENTS TO THE CLAIMS:

Please amend claims 1-10 as follows:

1. (Currently Amended) A portable multi-band communication device (1), comprising:
a power amplifier (216), a battery (270) for supplying power to the power amplifier, and
a controller (240), the controller being arranged to control an output power level of the communication device by generating a digital control signal (~~DAC value~~) for the power amplifier, characterized by
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the controller (240) being arranged to monitor the digital control signal, (~~DAC value~~) and in response, to determine a specific amount consumption (~~ChargeConsumption, CurrentCount~~) of electric energy consumed from the battery (270).
2. (Currently Amended) A portable multi-band communication device as in claim 1, further comprising:
a D/A (digital-to-analog) (D/A) converter (218) operatively connected to the power amplifier (216), the D/A converter being and arranged to receive, at as an input thereof, the digital control signal (~~DAC value~~), convert the digital control signal into an analog control signal, (~~Pwr Ctrl~~) and submit, at an output of the D/A converter, provide the analog control signal to the power amplifier.
3. (Currently Amended) A portable multi-band communication device as in claim 1, further comprising:
a memory (244) operatively connected to the controller (240), wherein the memory is adapted to store a set of predetermined consumption values (~~TxCurrent~~) associated with different values (00...n) of the digital control signal (~~DAC value~~).

4. (Currently Amended) A portable multi-band communication device as in claim 3, further comprising:

a radio transmitter (214), the operation of which is controlled through a control signal strobe (~~TX-str~~) submitted by the controller (240), wherein the controller is arranged to:

detect the control signal strobe (~~TX-str~~) to the radio transmitter,
determine a value (00...n) of the digital control signal (~~DAC value~~),
form an index (~~idx~~) from the determined value of the digital control signal,
use the index for reading one consumption value (~~TxCurr[Idx]~~) in the predetermined set (~~TxCurr~~) from the memory (244), and
update an accumulated consumption value (~~CurrentCount~~) to reflect the consumption value thus read.

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5. (Currently Amended) A portable multi-band communication device as in claim 3, further comprising:

a radio transmitter (214), the operation of which is controlled through a control signal strobe (~~TX-str~~) submitted by the controller (240), the memory (244) having a set of counters (~~TxStrobe~~) for different values (00...n) of the digital control signal (~~DAC value~~), wherein the controller is arranged to:

detect the control signal strobe (~~TX-str~~) to the radio transmitter,
determine a value (00...n) of the digital control signal (~~DAC value~~),
increment, in said set of counters, the counter that represents the determined value of the digital control signal, and

subsequently calculate the consumption (~~ChargeConsumption~~) of electric energy from the battery (270) from the contents of said set of counters (~~TxStrobe~~) and from the set of predetermined consumption values (~~TxCurr~~).

6. (Currently Amended) A portable multi-band communication device as in claim 3, wherein the set of predetermined consumption values ($Tx_{Current}$) is represented by a polynomial function.

7. (Currently Amended) A portable multi-band communication device as in claim 1, the device further comprising:

a graphical display (6), wherein the controller (240) is arranged to calculate an estimated remaining battery capacity by subtracting the determined consumption ($ChargeConsumption$, $CurrentCount$) of electric energy from a previous value of remaining battery capacity, and wherein the controller is arranged to visually indicate the calculated estimated remaining battery capacity (13) on the graphical display.

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8. (Currently Amended) A portable multi-band communication device as in claim 1, wherein the device is a mobile telephone (1), such as a employing TDMA telephone, or a W-CDMA telephone.

9. (Currently Amended) A method of determining a charge consumption for a portable battery-powered communication device (1), ~~said device comprising including~~ a radio transmitter (214), a power amplifier (216) operatively connected to the radio transmitter, and a controller (240) operatively connected to the power amplifier, wherein an output power level of the radio transmitter is controlled by the power amplifier through a digital control signal ($DAC\ value$) from the controller, and wherein the radio transmitter is furthermore responsive to a control signal strobe (TX_str), the characterized by the steps of method comprising:

storing a set of predetermined consumption values ($Tx_{Current}$) providing an association between different amounts of electric charge consumption and respective values of the digital control signal ($DAC\ value$),

detecting the control signal strobe (TX_str),

determining a value (00...n) of the digital control signal (DAC value),
selecting, from said set of predetermined consumption values (TxCurrent), a
value which corresponds to the determined value (00...n) of the digital control signal
(DAC value), and

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updating an accumulated charge consumption value (CurrentCount) to reflect the
selected value.

10. (Currently Amended) A method according to claim 9, applied to a mobile
telephone (1).